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DIALOG(R)File 351:Derwent WPI
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WPI Acc No: 1988-022601/*198804*

XRAM Acc No: C88-009931

**Pharmaceutical with stabilised granulocytes colony stimulating factor -
contains surfactant, saccharide, protein or high mol. wt. cpd. as
stabiliser**

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Number of Countries: 023 Number of Patents: 036

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 3723781	A	19880121	DE 3723781	A	19870717	198804	B
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Priority Applications (No Type Date): JP 86169489 A 19860718; JP 86169486 A
19860718; JP 86169487 A 19860718; JP 86169488 A 19860718; JP 87178031 A
19870716; JP 87178032 A 19870716; JP 87178033 A 19870716

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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RU 2025120	C1	10		A61K-009/14	
DK 171308	B			A61K-038/18	Previous Publ. patent DK 8703683
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AT 8701775	A			A61K-038/19	
PH 28830	A			A61K-031/715	
DE 3723781	C2			A61K-038/16	

Abstract (Basic): DE 3723781 A

A pharmaceutical contains stabilised G-CSF (granulocytes colony stimulating factor) as active ingredient and at least one surfactant, saccharide, protein or a high mol. wt. cpd. Pref. the amt. of surfactant or saccharide is 1-10000 pts. wt. Pref. pt. wt. G-CSF. Pref. the surfactant is non-ionic (esp. a sorbitan ester glycerine ester, poly-glycerine ester, polyoxyethylene sorbital ester, polyoxyethylene-glycerine ester or polyethylene glycol ester of an aliphatic acid, polyoxyethylene polyoxypropylene alkyl ether, a hardened polyoxyethylated castor oil, a polyoxyethylated bees wax deriv. a polyoxyethylene lanoline deriv. or an aliphatic polyoxyethylene acid aride), anionic (esp. an alkylsulphate or alkylsulpho succinyl ester salt) or natural (esp. lecithin, sphingophospholipid or an ester of an aliphatic acid with sucrose.

USE/ADVANTAGE - G-CSF can be used to treat various infectious diseases, but is unstable and highly sensitive to changes in the environment e.g. temp., humidity, oxygen or UV light. The invention stabilises the G-CSF and protects it completely against loss of activity.

Title Terms: PHARMACEUTICAL; STABILISED; GRANULOCYTE; COLONY; STIMULATING; FACTOR; CONTAIN; SURFACTANT; SACCHARIDE; PROTEIN; HIGH; MOLECULAR; WEIGHT ; COMPOUND; STABILISED

Derwent Class: A96; B04

International Patent Class (Main): A61K-009/14; A61K-031/715; A61K-037/02; A61K-038/00; A61K-038/16; A61K-038/18; A61K-038/19; A61K-047/00

International Patent Class (Additional): A61K-009/08; A61K-031/70; A61K-035/00; A61K-037/00; A61K-037/04; A61K-037/12; A61K-037/43; A61K-038/17; A61K-045/05; A61K-047/10; A61K-047/14; A61K-047/20; A61K-047/24; A61K-047/26; A61K-047/32; A61K-047/34; A61K-047/36; A61K-047/42; C12N-000/00

File Segment: CPI